

F5 QFCB



- Fibre Element
- Bedding
- Central Strength Element
- Armour
- Outer Sheath 1
- Outer Sheath 2

**Applications :** These steel armoured optical fibre cables are flame retardant, low smoke, halogen free and fire resistant, used for communication and emergency systems that need to be operational during fire.

**Standards :** IEC 60794  
IEC 60811-2-1  
IEC 60331-25  
IEC 60332-3-24  
IEC 60332-3-22  
IEC 60754-1,2  
IEC 61034-1,2  
NEK 606:2004

**Fibre Element :** Loose tube core design.

**Central Strength Element :** Steel wire or fibre reinforced plastic (FRP).

**Bedding :** Halogen free and flame retardant thermoplastic compound.

**Armour :** Galvanized steel wire braid.

**Outer Sheath1 :** Halogen free and flame retardant, UV-stabilized, thermoplastic compound, SHF1.

**Outer Sheath2 :** Mud resistant and halogen-free thermoplastic compound.

Electrical Characteristics :

Fibre Type		9/125	50/125	50/125	62.5/125
ITU-T type		G652.D	G651	G651	-
IEC11801 Classification		OS1 & OS2	OM2	OM3	OM1
Core Diameter	µm	8.7±0.4	50±3.0	50±3.0	62.5±3.0
Cladding Diameter	µm	125 ±1.0	125 ±2.0	125 ±2.0	125 ±2.0
Coating Diameter	µm	245 ±10	245 ±10	245 ±10	245 ±10

**Maximum Attenuation**

@850 nm	dB/km	-	3.0	3.0	3.5
@1300 nm	dB/km	-	1.5	1.0	1.5
@1310 nm	dB/km	0.36	-	-	-
@1550 nm	dB/km	0.22	-	-	-
<b>Minimum Bandwidth(OFL*)</b>					
@850 nm	MHz.km	-	500	1500	200
@1300 nm	MHz.km	-	500	500	600
<b>Maximum Chromatic Dispersion</b>					
1285-1330 nm	ps/nm.km	2.8	-	-	-
1550 nm	ps/nm.km	18	-	-	-
<b>Zero Dispersion Wavelength</b>	nm	1300~1324	-	-	-

Mechanical and Thermal Properties :

Bending Radius : 20×OD (during installation); 10×OD (fixed installed).

Temperature Range : -40°C ~ +70°C.

Dimensions and Weight :

No. of Fibres	Construction No. of tubes×No. of fibres in each tube	Number of Fillers	Nominal Loose Tube Diameter mm	Nominal Overall Diameter mm	Nominal Weight kg/km
2	1×2	5	2.2	15.0	290
4	1×4	5	2.2	15.0	290
6	3×2	3	2.2	15.0	290
8	2×4	4	2.2	15.0	290
10	5×2	1	2.2	15.0	290
12	3×4	3	2.2	15.0	290
16	4×4	2	2.2	15.0	290
20	5×4	1	2.2	15.0	290
24	6×4	0	2.2	15.0	290
32	4×8	2	2.2	15.0	290
40	5×8	1	2.2	15.0	290
48	6×8	0	2.2	15.0	290

